

FFFFFFFF FF FF FF FF FF FFFFFFF FF FF F	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD		DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	VV	
		\$				

FD

RR RR RR

RR

```
TITLE 'FDLDRIVER'

SSBTTL 'FDL Parse Table Drivers'

MODULE FDLDRIVER (IDENT='V04-000',

ADDRESSING_MODE (EXTERNAL = GENERAL),

ADDRESSING_MODE (NONEXTERNAL = GENERAL),

OPTLEVEL=3

) =
```

BEGIN

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.

1 *

1 .

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**

Facility: RMS-32 FDL Utilities

Abstract:

Contents:

GET_LINE
UPCASE
SET_LINE
SET_TERM
SET_PRIMARY
SET_SECONDARY
START_STR
END_STR
SET_DATE_TIME
SET_COMMENT
SYNTAX_ERROR
ERROR_CHK
NEGATE
SET_BLANK
CLR_BLANK
CLR_BLANK
FDL\$\$READ_ERROR
RMS_ERROR
RMS_OPEN_ERROR

VC

M 8 16-Sep-1984 01:47:45 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:31:17 [FDL.SRCJFDLDRIVER.B32:1 FDLDRIVER FDL Parse Table Drivers FDLDRIVER VO4-000 Page (1) 58 59 60 61 63 Environment: VAX/VMS Operating System

FC

FDLDRIVER V04-000		Table Drivers		N 8 16-Sep-1984 01: 14-Sep-1984 12:	47:45 31:17	VAX-11 Bliss-32 V4.0-742 [FDL.SRC]FDLDRIVER.B32;1
65 66 67	0064 1 ! 0065 1 ! 0066 1 ! 0067 1 ! 0068 1 !	Author:	Keith B Thompson	Creation date:	January	-1981
69	0068 1	Modified by:				
71 72 73 74	0070 1 1 0071 1 1 0072 1 1 0073 1 1	v03-012	KFH0009 Ken He Fix to FDL\$\$GET_LINE t FDL spec string. Fix calls to GET_VM and	nderson o allow null d FREE_VM.	23 Aug	1983
76 77 78 78	0075 1 1 0076 1 1	v03-011	KFH0008 Ken He Fixes to END_STR and S Addition of EXTRACT QU Addition of TRIM_LEADI	nderson ET_DATE_TIME OTE routine NG routine	10 Aug	1983
81 82	0080 1 ! 0081 1 !	v03-010	KFH0007 Ken He Check status of LIB\$TP	nderson ARSE call	29 Jul	1983
84	0082 1 0083 1 0084 1	v03-009	KFH0006 Ken He Fixed call to \$BINTIM	nderson	26 Apr	1983
; 86 ; 87 ; 88	0085 1 1 0086 1 1 0087 1	v03-008	KFH0005 Ken He fixed broken branches	nderson	30 Dec	1982
: 99 : 91	0088 1 ! 0089 1 ! 0090 1 !	v03-007	KFH0004 Ken He Fixed signal of FDL\$_U	nderson NSECKW	21 Dec	1982
6667890123456789012345678999999999999999999999999999999999999	0078 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	v03-006	KFH0003 Ken He Added support for defa main parses Added support for more secondaries per primar Added move to .FDL\$GLFDL\$GL_STMNTNUM	nderson ult and than 32	15-Nov-	1982
100 101 102 103 104	0100 1 1 0101 1 1 0102 1 1 0103 1	v03-005	KFH0002 Ken He Removed numtype Added support for ACL Added support for FDL	nderson primary STRINGS	6-0ct-1	982
106	0104 1 ! 0105 1 ! 0106 1 !	v03-004	KFH0001 Ken f. Changed terminator cha	Henderson racter from "/" t	28-Jul-	1982
108 109 110	0107 1 1 0108 1 1 0109 1	v03-003	KBT0067 Keith Add support for multip	B. Thompson le keywords per l	23-Jun-	1982
; 111 112 ; 113	0110 1 0111 1 0112 1	v03-002	KBT0029 Keith Add upcase/lowercase p	Thompson rocessing and dat	30-Mar- e/time r	1982 outine
: 114 : 115 : 116 : 117 : 118	0113 1 1 0114 1 1 0115 1 1 0116 1	v03-001	KBT0019 Keith fix error message proc	Thompson essing	22-Mar-	1982

FD

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```
FDLDRIVER
V04-000
                                                   FDLDRIVER FDL Parse Table Drivers
                                                                                                                                                                                                             16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
                                                                                                                                                                                                                                                                                          VAX-11 Bliss-32 V4.0-742 LFDL.SRCJFDLDRIVER.B32:1
                                                                                                                                                                                                                                                                                                                                                                                                              Page
                                                                                                                                                                                                                                                                                                                                                                                                                              (3)
                                                  PSECT
                                                                                                                            = _FDL$OWN
= _FDL$GLOBAL
= _FDL$PLIT
= _FDL$CODE
                                                                                                      OWN
GLOBAL
PLIT
CODE
                                                                                                                                                                                    (PIC),
(PIC),
(SHARÉ,PIC),
(SHARE,PIC);
                                                                            LIBRARY 'SYS$LIBRARY: STARLET';
REQUIRE 'SRC$: FDLUTIL';
REQUIRE 'LIB$: FDLPARDEF';
                                                                           EXTERNAL ROUTINE FDL$$GET_VM, FDL$$FREE_VM, LIB$TPARSE, STR$TRIM,
                                                                                                       SYSSBINTIM:
                                                                            DEFINE_ERROR_CODES:
                                                                          FORWARD ROUTINE
EXTRACT QUOTE,
TRIM_LEADING,
UPCASE
FDL$$SET_PRIMARY,
FDL$$SET_SECONDARY,
FDL$$START_STR,
FDL$$SEND_STR,
FDL$$SET_COMMENT,
FDL$$SYNTAX_ERROR,
FDL$$ERROR_CHK,
FDL$$READ_ERROR
                                                                                                                                                                                   : NOVALUE,
         148
149
150
151
153
155
156
157
158
161
163
164
165
                                                                                                                                                                                   : NOVALUE;
                                                                            EXTERNAL
                                                                                                      Parse control
                                                                                                     FDL$AB_LINE
FDL$AB_UPCASED
FDL$AB_ITEM
FDL$AB_FDL_STRING
FDL$AB_PRE_PARSE_BLOCK
FDL$AB_PRE_PARSE_STATE,
FDL$AB_PRE_PARSE_KEY,
FDL$GL_STNOMPTR,
FDL$GL_MAXLINE,
FDL$GL_PRIMARY,
FDL$GL_PRIMARY,
FDL$GL_PRINUM,
FDL$AB_PRICTRL
FDL$GL_SECONDARY,
FDL$AB_SECCTRL
FDL$AB_SECCTRL
FDL$AB_SECCTRL
FDL$AB_SECCTRL
FDL$AB_SECCTRL
FDL$AB_SECCTRL
FDL$AB_SECCTRL
FDL$GL_NUMBER,
FDL$GL_SWITCH,
                                                                                                                                                                                  : DESC_BLK,
: DESC_BLK,
: DESC_BLK,
: DESC_BLK,
: BLOCK [ ,BYTE ],
         166
167
168
169
170
171
172
173
174
175
                                                                                                                                                                                   : BLOCK [ ,BYTE ],
                                                                                                                                                                                   : BLOCK [ ,BYTE ],
                                                                                                                                                                                   : BITVECTOR [ FDL$K_SCTRL_VEC ],
: VECTOR [ FDL$K_SCTRL_LONG, LONG ],
```

VO

FDLDRIVER V04-000	VAX-11 FDL Uti	lities e Drivers		C 9 16-Sep-1984 01:47:45 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:31:17 [FDL.SRCJFDLDRIVER.B32;1
177 178 179 180 181 182 183 184 185 186 187 188 189	0897 1 0898 1 0899 1 0900 1 0901 1 0902 1 0903 1 0904 1 LITER/ 0905 1 0906 1 0907 1 0908 1 0909 1 0910 1 DWN	FDL\$GL_PROTECTI FDL\$AL_DATE_TIM FDL\$AB_STRING FDL\$AB_COMMENT FDL\$GL_STMNTNUM FDL\$AB_FDL_RAB	ON, E	: VECTOR [,LONG], : DESC_BLK, : DESC_BLK, : \$RAB_DECL;
185 186 187 188 189	0904 1 LITER/ 0905 1 0906 1 0907 1 0908 1 0909 1	SMALL_A SMALL_Z UPCASE_MASK COMMENT_MARK	= 97 = 122, = 32, = 33;	! ASCII character 'a' ! ASCII character 'z' ! Mask to convert to upercase ASCII ! ASCII character '!'
: 190	0910 1 OWN 0911 1	STRING_DESC	: DESC_	BLK;

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FE

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FO
```

Page

```
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
                      VAX-11 FDL Utilities GET_LINE
                                                                                                                          VAX-11 Bliss-32 V4.0-742 [FDL.SRCJFDLDRIVER.B32;1
FDLDRIVER
V04-000
                                 XSBITL 'GET LINE'
GLOBAL ROUTINE FDLSSGET_LINE =
    Functional Description:
                                            Set up a new item for the parse tables. If there are no more items on a line it then reads from the input file (or uses the FDL STRING)
                                             It then upcases it; inits some values and returns
                                    Calling Sequence:
                                            Called from the parse tables
                                    Input Parameters:
                                            none
                                    Implicit Inputs:
                                            none
                                    Output Parameters:
                                            none
                                    Implicit Outputs:
                                            none
                                    Routine Value:
                      0940
0941
0942
0944
0944
0944
0944
0944
0945
0955
0956
0964
0964
                                            none
                                    Side Effects:
                                            none
                                       BEGIN
                                       TPARSE_ARGS:
                                         Main processing loop
                                       DO
                                            BEGIN
                                             ! If there are no more items in the line get a new line
                                             IF .FDLSAB_ITEM [ DSCSW_LENGTH ] EQL O
                                             THEN
                                                  BEGIN
                                                  IF .FDLSAB_CTRL [ FDLSV_STRING_SPEC ] THEN
                                                        BEGIN
                                                          Only go thru once for the string. Don't go thru at all if the string is null.
```

```
E 9
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
                    VAX-11 FDL Utilities GET_LINE
FDLDRIVER
VO4-000
                                                                                                                 VAX-11 Bliss-32 V4.0-742 EFDL.SRCJFDLDRIVER.B32;1
                                                                                                                                                               Page
                                                   IF (
(.FDL$AB_CTRL [ FDL$V_USED_STRING ])
                    0969
0970
0971
0973
0974
0975
0976
0977
0978
0981
0982
0983
   (.FDL$AB_FDL_STRING [ DSC$W_LENGTH ] EQLU 0)
                                                   ) THEN
                                                        RETURN 0:
                                                   CH$MOVE ( .FDL$AB_FDL_STRING [ DSC$W_LENGTH ], .FDL$AB_FDL_STRING [ DSC$A_POINTER ], .FDL$AB_LINE [ DSC$A_POINTER ] );
                                                   FDL$AB_LINE [ DSC$W_LENGTH ] = .FDL$AB_FDL_STRING [ DSC$W_LENGTH ];
FDL$AB_CTRL [ FDL$V_USED_STRING ] = _SET;
                                              ELSE
                                                   BEGIN
                    0987
0988
                                                     Loop until we get a non-zero line
                    DO
                                                        BEGIN
                                                         ! Get the new line from the FDL file.
                                                        RET_ON_ERROR( $GET ( RAB=FDL$AB_FDL_RAB,ERR=FDL$$READ_ERROR ) );
                                                        END
                                                   UNTIL ( FDL$AB_LINE [ DSC$W_LENGTH ] =
                                                                                  .FD[$AB_FDL_RAB [ RAB$W_RSZ ] ) NEQ 0;
                                                   END:
                                                Up case the whole line and move it into the upcase buffer
                                              UPCASE();
                                              ! Point the tables to the upcased line
                                              FDL$AB_ITEM [ DSC$A_POINTER ] = .FDL$AB_UPCASED [ DSC$A_POINTER ]
                                              END:
                                           Point to the next item
                                         FDL$AB_ITEM [ DSC$A_POINTER ] = .FDL$AB_ITEM [ DSC$A_POINTER ] +
                                                                                             .FDL$AB_ITEM [ DSC$W_LENGTH ];
                                         BEGIN
                                           Get the string
                                         FDL$AB_PRE_PARSE_BLOCK [ TPA$L_STRINGCNT ] = .FDL$AB_UPCASED [ DSC$W_LENGTH ]
                                                                                  .FDL$AB_ITEM [ DSC$A_POINTER ]
```

```
FDLDRIVER
                                                                                       16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
                     VAX-11 FDL Utilities
                                                                                                                       VAX-11 Bliss-32 V4.0-742 
EFDL.SRCJFDLDRIVER.B32;1
                                                                                                                                                                         Page
V04-000
                     GET_LINE
    307
308
309
                     1026
1027
1028
1029
1031
1033
1033
1036
1037
1039
                                                                                       - .FDL$AB_UPCASED [ DSC$A_POINTER ]
                                           FDL$AB_PRE_PARSE_BLOCK [ TPA$L_STRINGPTR ] = .FDL$AB_ITEM [ DSC$A_POINTER ];
                                             find where to chop it off - the Tparse will set these flags if it finds " or '
                                           FDL$AB_CTRL [ FDL$V_QUOTE_PRES ] = _CLEAR;
FDL$AB_CTRL [ FDL$V_APOST_PRES ] = _CLEAR;
                                           RET_ON_ERROR ( LIB$TPARSE ( FDL$AB_PRE_PARSE_STATE, FDL$AB_PRE_PARSE_KEY ));
    ! Now set up the main tparse block to find our 'line'
                     FDL$AB_ITEM [ DSC$W_LENGTH ] = .TPARSE_BLOCK [ TPA$L_STRINGCNT ];
                                           END
                                                      ! of local
                                                      ! of main loop
                                           END
   333
333
335
336
337
                                     UNTIL .FDL$AB_ITEM [ DSC$W_LENGTH ] NEQ 0;
                                     FDL$GL_STMNTNUM = .FDL$GL_STMNTNUM + 1;
                                        Update the user's cell that contains the statement number.
   338
339
                                      IF .FDL$AB_CTRL [ FDL$V_STVALID ]
                                      THEN
                                           .FDL$GL_STNUMPTR = .FDL$GL_STMNTNUM;
                                        Since there is a new secondary for each item clear some flags
                                     FDL$GL_SECONDARY = _CLEAR;
FDL$GL_SECNUM = _CLEAR;
FDL$GL_SWITCH = _CLEAR;
FDL$GL_PROTECTION = _CLEAR;
FDL$AB_STRING [ DSC$W_[ENGTH ] = 0;
FDL$AB_CTRL [ FDL$V_WARNING ] = _CLEAR;
FDL$AB_CTRL [ FDL$V_COMMENT ] = _CLEAR;
FDL$AB_CTRL [ FDL$V_LINECMT ] = _CLEAR;
                     1071
1072
1073
                                     RETURN SS$_NORMAL
                                     END:
```

.TITLE FDLDRIVER VAX-11 FDL Utilities .IDENT \V04-000\
.PSECT _FDL\$OWN,NOEXE, PIC,2

```
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
                                                                                                                                            VAX-11 Bliss-32 V4.0-742 
EFDL.SRCJFDLDRIVER.B32;1
                                                                                                                                                                                                                                                                                                                                  Page
00000 STRING_DESC:
                                                                                                          FDL$$GET_VM, FDL$$FREE_VM
LIB$TPAR$E, STR$TRIM

SYS$BINTIM, FDL$_FACILITY
FDL$_FAO_MAX, FDL$_CREATE
FDL$_CREATED, FDL$_CREATE
FDL$_CREATED, FDL$_CREATEDSTM
FDL$_FDLERROR, FDL$_INVBLK
FDL$_INSVIRMEM, FDL$_INVBLK
FDL$_INVDATIM, FDL$_MULPRI
FDL$_MULSEC, FDL$_NOQUAL
FDL$_NULLPRI, FDL$_OPENFOL
FDL$_NULLPRI, FDL$_OPENFOL
FDL$_WRITEERR, FDL$_READERR
FDL$_SYNTAX, FDL$_VALPRI
FDL$_SYNTAX, FDL$_VALPRI
FDL$_UNQUAKW, FDL$_WARNING
FDL$_UNSECKW, FDL$_WARNING
FDL$_AB_LINE, FDL$AB_UPCASED
FDL$AB_LINE, FDL$AB_UPCASED
FDL$AB_PRE_PARSE_BLOCK
FDL$AB_PRE_PARSE_STATE
FDL$AB_PRE_PARSE_STATE
FDL$AB_PRE_PARSE_STATE
FDL$AB_PRE_PARSE_STATE
FDL$AB_PRE_PARSE_STATE
FDL$AB_PRE_PARSE_STATE
FDL$AB_PRE_PARSE_STATE
FDL$AB_PRE_PARSE_STATE
FDL$AB_PRE_PARSE_STATE
FDL$AB_PRICTRL, FDL$AB_CTRL
FDL$GL_PRIMARY, FDL$AB_CTRL
FDL$GL_PRIMARY, FDL$AB_SECCTRL
FDL$GL_PRIMARY, FDL$AB_SECCTRL
FDL$GL_PROTECTION
FDL$AB_SECCTRL
FDL$GL_PROTECTION
FDL$AB_STRING, FDL$AB_COMMENT
FDL$AB_FDL_RAB, SYS$GET

_FDL$CODE,NOWRT, SHR, PIC,2
                                                                       .BLKB
                                                                      .EXTRN
.EXTRN
.EXTRN
                                                                       .EXTRN
                                                                      .EXTRN
.EXTRN
.EXTRN
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                                                                       .EXTRN
                                                                       .EXTRN
```

.PSECT _FDL\$CODE,NOWRT, SHR, PIC,2

		OFFC	00000 .EN	RY FDL\$\$GET_LINE, Save R2,R3,R4,R5,R6,R7,R8,-	: 0913
28 03	01 01	5B 00000000G 00 9E 5A 00000000G 00 9E 59 00000000G 00 9E 58 00000000G 00 9E 57 68 3C 62 12 68 3C 62 12 68 B5 69 B5	00002 MOV 00009 MOV 00010 MOV 00017 MOV 0001E MOV 00021 BNE 00023 1\$: BBC 00028 BBC 00020 2\$: BRW 00030 3\$: TST	B FDL\$AB_PRE_PARSE_BLOCK+12, R10 B FDL\$AB_CTR[, R9 B FDL\$AB_ITEM, R8 WL FDL\$AB_ITEM, R7	0958 0962 0970
		56 6B 3C 51 04 AB DO 50 000000006 00 DO	00032 BEQ 00034 MOV 00037 MOV 0003B MOV	VL FDL\$AB_FDL_STRING, R6 FDL\$AB_FDL_STRING+4, R1 FDL\$AB_LINE+4, R0	0976 0977 0978

FDLDRIVER V04-000	VAX-11 GET_LIN	FDL Ut	ilities					1	-Sep	-1984 01:47 -1984 12:31	:45 VAX-11 Bliss-32 V4.0-742 Page :17 [FDL.SRCJFDLDRIVER.B32;1	10
		60 0	0000000G	61 00 A9		56	28 80 88	00042 00046 00040 00053 00059 00056 00066 00076		MOVC3 MOVW BISB2 BRB PUSHAB PUSHAB CALLS BLBC MOVW BEQL CALLS	R6. (R1). (R0)	980 981 962 994
		01	0000000G	00	00000000v 00000000g	2300000	9F 9F FB	00053 00059 0005F	48:	PUSHAB PUSHAB CALLS	FDL\$\$READ_ERROR FDL\$AB_FDL_RAB #2, SYS\$GET STATUS, 7\$	994
		0	000000G	00	000000006	50 00 00	E9	00066 00069		BLBC MOVW	STATUS, 7\$ FDL\$AB_FDL_RAB+34, FDL\$AB_LINE	999
		0(0000000v	00 A8 50	0000000G	000	FB0	00076 0007b 00085 00088 0008C	5\$: 6\$:	CALLS MOVL MOVZWL	#0, UPCASE FDL\$AB_UPCASED+4, FDL\$AB_ITEM+4 FDL\$AB_ITEM, R0 10	005 009 016
			04 0000000G	51	04 00000000G	A8 51 00 52	00	0008C 00090 00098		MOVL MOVZWL ADDL2 MOVL SUBL3 MOVZWL ADDL3	FDL\$AB_ITEM+4, R1 R1, FDL\$AB_UPCASED+4, R0 FDL\$AB_UPCASED, R2 10	025 026 024
	FC	AA	01	6A A9	00000000G 00000000G	51 8F 00 00	00 8A 9F	00098 0009F 000A4 000A7 000B2 000B8 000B8		MOVL BICB2 PUSHAB PUSHAB PUSHAB	RZ, RO, FDLSAB PRE PARSE BLOCK+8	028 034 037
		00	0000000G	00 5B	F4	AA 030 A8 50	9F FB E9 D0	000B8 000C2	7\$:	PUSHAB CALLS BLBC MOVL	FDL\$AB_PRE_PARSE_BLOCK #3, LIB\$TPARSE STATUS, 11\$;	
	08	AC	ОС	50 AC 6A	04	A8 50 50	D0 D0 C3	000C5 000C9 000CD		MOVL MOVL SUBL 3	FDL\$AB_ITEM+4, RO RO, 12(TPARSE_BLOCK) RO, FDL\$AB_PRE_PARSE_BLOCK+12, - : 10	041
				68 57	08	AC 68 03	B0 30 12	00002		MOVW MOVZWL BNEQ	8(TPARSE_BLOCK) 8(TPARSE_BLOCK), FDL\$AB_ITEM : 10 FDL\$AB_ITEM, R7 : 10 8\$	046 052
		0E	02	A9 50	00000000G	F45 00 02 00	D6 E1 D0	000D9 000DB 000DE 000E9 000F0 000F7 00103 00109	8\$:	BRW INCL BBC MOVL	FDL\$GL STMNTNUM #2, FDC\$AB CTRL+2, 9\$ FDL\$GL_STNUMPTR, RO FDL\$GL_STMNTNUM, (RO) FDL\$GL_SECONDARY FDL\$GL_SECONDM FDL\$GL_SECNUM FDL\$GL_SWITCH FDL\$GL_PROTECTION FDL\$AB_STRING #776, FDL\$AB_CTRL #1, RO 10	054 058 060
				60	00000000G 00000000G 00000000G 00000000G 000000	00	D6100044444A	000F7 000FD 00103	9\$:	MOVL CLRL CLRL CLRL	FDL\$GL_SECONDARY : 10 FDL\$GL_SECNUM : 10 FDL\$GL_SWITCH : 10	064 065 066 067
				69	000000006 000000006 0308	00 8F 01	B4 A00 04	00112		CLRU CLRW BICW2 MOVL	FDL\$GL_PROTECTION : 10 FDL\$AB_STRING : 10 #776, FDL\$AB_CTRL : 10 #1, R0 : 10	067 068 071 073
						50	04	0011D 0011E 00120	105:	RET CLRL RET		075

; Routine Size: 289 bytes, Routine Base: _FDL\$CODE + 0000

```
FDLDRIVER
VO4-000
                   VAX-11 FDL Utilities UPCASE
                                                                             16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
                                                                                                          VAX-11 Bliss-32 V4.0-742 
EFDL.SRCJFDLDRIVER.B32;1
                             "SBTTL 'UPCASE'
                   ROUTINE UPCASE : NOVALUE =
                               Functional Description:
                                      Upcases the input line while moving it into the upcase buffer
                               Calling Sequence:
                                      UPCASE()
                               Input Parameters:
                                      none
                               Implicit Inputs:
                                      FDL$AB_LINE
                                                         - Descriptor of the input line
                               Output Parameters:
                               Implicit Outputs:
                                      FDL$AB_UPCASED - Descriptor of the upcased input line
                               Routine Value:
                                      none
                               Side Effects:
                                      none
                                 BEGIN
                   1111
1112
1113
1114
1116
1117
1118
1112
1123
1124
1127
1128
1127
1130
1131
1132
                                 LOCAL
                                               : REF VECTOR [ ,BYTE ];
                                      UPCR
                                   Point to the string of characters and the upcase buffer
                                 CHAR = .FDL$AB_LINE [ DSC$A_POINTER ];
UPCR = .FDL$AB_UPCASED [ DSC$A_POINTER ];
                                   Loop for all the characters in a line
                                 INCR I FROM 0 TO ( .FDL$AB_LINE [ DSC$W_LENGTH ] - 1 ) BY 1
                                        If the char, is a lower case letter upcase it
                                        else just copy it over
                                       IF ( .CHAR [ .I ] GEQU SMALL_A ) AND ( .CHAR [ .I ] LEQU SMALL_Z )
                                           UPCR [ .I ] = .CHAR [ .I ] AND ( NOT UPCASE_MASK )
```

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```
FDLDRIVER
VO4-000
                      VAX-11 FDL Utilities UPCASE
                                                                                            16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
                                                                                                                              VAX-11 Bliss-32 V4.0-742 [FDL.SRCJFDLDRIVER.B32;1
                                                                                                                                                                                  Page 12 (5)
                                                   UPCR [ .1 ] = .CHAR [ .1 ];
   415
416
417
418
420
421
423
                                        ! Set the length of the upcased line
                                        FDL$AB_UPCASED [ DSC$W_LENGTH ] = .FDL$AB_LINE [ DSC$W_LENGTH ];
                                        RETURN
                       1140
                                        END:
                                                                                                                     Save R2,R3
FDL$AB_LINE+4, CHAR
FDL$AB_UPCASED+4, UPCR
FDL$AB_LINE, R3
                                                                                                                                                                                       1077
1118
1119
1123
1131
                                                                               000C 00000 UPCASE: .WORD
                                                            00000000G
00000000G
00000000G
                                                                            00
00
01
                                                                                      00009
                                                                                                          MOVL
                                                                                      00010
                                                                                                          MOVZWL
                                                                                      00017
                                                                                                          MNEGL
                                                                                      0001A
0001C 15:
                                                                         1B
6241
                                                                                                          BRB
                                                        8F
                                                                                  91
                                                                                                          CMPB
                                                61
                                                                                                                      (I)[CHAR], #97
                                                                                                                                                                                       1129
                                                                                                          BLSSU
                                                                         6241
08
20
05
6241
53
                                                7A
                                                       8F
                                                                                                                      (I)[CHAR], #122
                                                                                                          CMPB
                                                                                                          BGTRU
                                                                                                                     #32, (1)[CHAR], (1)[UPCR]
                                 6240
                                                     6241
                                                                                                          BICB3
                                                                                                                                                                                       1131
                                                                                                          BRB
                                       6240
00000000G 00
                                                                                                                                                                                       1133
1129
1137
                                                                                                          MOVB
                                                                                                                      (1)[CHAR], (1)[UPCR]
                                                                                                                     R3, FDLSAB_UPCASED
                                                                                                          AOBLSS
                                                                                                          MOVW
                                                                                      00042
                                                                                                          RET
                                                                                                                                                                                       1141
```

Routine Base: _FDL\$CODE + 0121

; Routine Size: 67 bytes,

```
K 9
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
VO4-000
                    VAX-11 FDL Utilities SET_LINE
                                                                                                                 VAX-11 Bliss-32 V4.0-742 [FDL.SRCJFDLDRIVER.B32;1
                                                                                                                                                                Page 13 (6)
                               %SBTTL 'SET_LINE'
GLOBAL ROUTINE FDL$$SET_LINE =
                    Functional Description:
                                 Calling Sequence:
                                  Input Parameters:
                                         none
                                  Implicit Inputs:
                                         none
                                 Output Parameters:
                                         none
                                  Implicit Outputs:
                                         none
                                 Routine Value:
                                         none
                                 Side Effects:
                                         none
                                    BEGIN
                                    TPARSE_ARGS;
                                   FDL$AB_ITEM [ DSC$A_POINTER ] = .TPARSE_BLOCK [ TPA$L_TOKENPTR ];
                                    RETURN SS$_NORMAL
                                    END:
                                                                                               .ENTRY
MOVL
MOVL
RET
                                                                                                         FDL$$SET_LINE, Save nothing 20(TPARSE_BLOCK), FDL$AB_ITEM+4 #1, R0
                                                                      0000
                                                                            00000
20000
A0000
                                    0000000G
                                                                             0000D
; Routine Size: 14 bytes,
                                      Routine Base:
                                                          _FDL$CODE + 0164
```

```
L 9
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
V04-000
                      VAX-11 FDL Utilities SET_TERM
                                                                                                                        VAX-11 Bliss-32 V4.0-742 [FDL.SRCJFDLDRIVER.B32;1
                                                                                                                                                                         Page 14 (7)
                                %SBTTL 'SET TERM'
GLOBAL ROUTINE FDL$$SET_TERM =
                     Functional Description:
                                   Calling Sequence:
                                   Input Parameters:
                                           none
                                   Implicit Inputs:
                                           none
                                   Output Parameters:
                                           none
                                   Implicit Outputs:
                                           none
                                   Routine Value:
                                           none
                                   Side Effects:
                                           none
                                      BEGIN
                                      TPARSE_ARGS;
                                     FDL$AB_PRE_PARSE_BLOCK [ TPA$L_STRINGPTR ] = .FDL$AB_PRE_PARSE_BLOCK [ TPA$L_STRINGPTR ] - 1;
                                      RETURN SS$_NORMAL
                                      END:
                                                                          0000 00000
0 p7 00002
1 p0 00008
04 0000B
                                                                                                               FDL$$SET_TERM, Save nothing FDL$AB_PRE_PARSE_BLOCK+12 #1, R0
                                                                                                     .ENTRY
                                                                        00
                                                         0000000G
                                                                                                     MOVL
                                                                                                     RET
; Routine Size: 12 bytes,
                                         Routine Base: _FDL$CODE + 0172
```

```
FDLDRIVER
V04-000
                   VAX-11 FDL Utilities SET_PRIMARY
                                                                             16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
                                                                                                          VAX-11 Bliss-32 V4.0-742 
EFDL.SRCJFDLDRIVER.832:1
                                                                                                                                                           (8)
                                                                                                                                                     Page
                            "SBTTL 'SET_PRIMARY'
   23456789012345678901234567890123456789012345678901234567890123456789012345678
                   GLOBAL ROUTINE FDL$$SET_PRIMARY =
                               functional Description:
                               Calling Sequence:
                               Input Parameters:
                                      none
                               Implicit Inputs:
                                      none
                               Output Parameters:
                                      none
                               Implicit Outputs:
                                      none
                               Routine Value:
                                      none
                               Side Effects:
                                      none
                                 BEGIN
                                 TPARSE_ARGS;
                                      NXTPRINUM:
                                                         ! The next key or area primary number
                                 LOCAL
                                      PRIMASK:
                                 PRIMASK = .TPARSE_BLOCK [ TPA$L_PARAM ];
                                   If this is the first call then clear an go else check to make sure a
                                   secondary was processed.
                                 IF .FDL$AB_CTRL [ FDL$V_INITIAL ]
                                      FDL$AB_CTRL [ FDL$V_INITIAL ] = _CLEAR
                                      ! If a secondary was processed the ok else null primary warning
                                      IF .FDL$AB_CTRL [ FDL$V_SECONDARY ]
                                          FDL$AB_CTRL [ FDL$V_SECONDARY ] = _CLEAR
                                          SIGNAL ( FDL$_NULLPRI );
                                 IF (
```

```
N 9
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
V04-000
                   VAX-11 FDL Utilities SET_PRIMARY
                                                                                                        VAX-11 Bliss-32 V4.0-742 
EFDL.SRCJFDLDRIVER.B32:1
                                                                                                                                                   Page 16 (8)
   ( NOT .FDL$AB_CTRL [ FDL$V_DFLT_PRES ] )
                   ( .FDL$AB_CTRL [ FDL$V_REPARSE ] )
THEN
                                      BEGIN
                                        If this primary has been defied before check to see if it's a
                                        key or area primary
                                      IF ( .PRIMASK AND .FDL$AB_PRICTRL ) NEQU O THEN
                                             Is it a key, area, analysis_of_key or analysis_of_area primary check the order in case the last was the same
                                           IF (
                                                 .PRIMASK )
                                               AND
                                               ( FDLSM_KEY OR FDLSM_AREA OR FDLSM_ANALK OR FDLSM_ANALA )
                                          ) NEQU O
                                          ) THEN
                                                 What was the last primary
                                               (.FDL$GL_PRIMARY EQLU FDL$C_KEY)
                                               (.FDL$GL_PRIMARY EQLU FDL$C_AREA)
                                               (.FDL$GL_PRIMARY EQLU FDL$C_ANALK)
                                               (.FDL$GL_PRIMARY EQLU FDL$C_ANALA)
                                               ) THEN
                                                      Check to see if the number is correct
                                                    IF .FDL$GL_PRINUM EQLU .NXTPRINUM
                                                    THEN
                                                         NXTPRINUM = .NXTPRINUM + 1
                                                    ELSE
                                                         SIGNAL ( FDL$_OUTORDER, 1, .FDL$GL_STMNTNUM );
RETURN FDL$_SYNTAX
   604
   606
                                                    NXTPRINUM = 0
   608
                                          ELSE
   610
                                                 Multiple primaries is only a warning
   612
                                               SIGNAL ( FDL$_MULPRI,1,.FDL$GL_STMNTNUM )
                                      ELSE
```

```
B 10
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
V04-000
                   VAX-11 FDL Utilities SET_PRIMARY
                                                                                                         VAX-11 Bliss-32 V4.0-742 [FDL.SRC]FDLDRIVER.B32:1
                                                                                                                                                    Page 17 (8)
   ! Is it a first key or area or ect. primary check the number
                                           IF ( .PRIMASK AND ( FDLSM_KEY OR FDLSM_AREA OR FDLSM_ANALK OR
                                                                                                    FDLSM_ANALA ) ) NEQU O
                                           THEN
                                                  If so check to see if the number is correct
                                                IF .FDLSGL_PRINUM EQLU 0
                                                    NXTPRINUM = 1
                                                ELSE
                                                     BEGIN
                                                     SIGNAL ( FDL$_OUTORDER, 1, .FDL$GL_STMNTNUM );
RETURN FDL$_SYNTAX
                                                    END:
                                      END:
                                   Flag it for latter
                                 FDL$AB_PRICTRL = .FDL$AB_PRICTRL OR .PRIMASK;
                                 ! Clear FDL$PRIMARY so that tparse can set it on return
                   356
357
358
359
361
363
364
1365
1367
1368
1371
                                 FDL$GL_PRIMARY = _CLEAR;
                                 ! Indicate that a new primary has been found
                                 FDL$AB_CTRL [ FDL$V_NEWPRI ] = _SET;
                                 ! Get ready for a new set of secondaries
                                 INCR I FROM 0 TO (FDL$K_SCTRL_LONG-1)
                                      FDL$AB_SECCTRLL [ .I ] = _CLEAR;
                                 RETURN SS$_NORMAL;
                                 END:
                                                                                        .PSECT _FDL$OWN, NOEXE, PIC, 2
                                                                        00008 NXTPRINUM:
                                                                                         .BLKB
                                                                                        .PSECT
                                                                                                 _FDL$CODE,NOWRT, SHR, PIC,2
                                                                  03FC 00000
                                                                                        .ENTRY
                                                                                                  FDL$$SET_PRIMARY, Save R2,R3,R4,R5,R6,R7,-
                                                                                                                                                       : 1218
                                                                                                 R8,R9
FDL$GL_STMNTNUM, R9
FDL$GL_PRINUM, R8
                                               59 00000000G
58 00000000G
                                                                                         MOVAB
                                                                                        MOVAB
```

DLDRIVER 04-000	VAX-11 FDL Utilitie SET_PRIMARY				C 10 16-Sep- 14-Sep-	1984 01:47: 1984 12:31:	45 VAX-11 Bliss-32 V4.0-742 17 [FDL.SRCJFDLDRIVER.B32:1	Page 18
		57 00000000G 56 0000000G 55 00000000G 54 00000000 53 0000000G	00 00 00 00 00 AC 63 85 13	9E 9E 9E 9E 9E 9E 9E 9E 9E 9E	00010 00017 0001E 00025 0002C 00037 00037 00039 00038 0003F 00041 00045	MOVAB MOVAB MOVAB MOVAB MOVL TSTB BGEQ BICB2	FDL\$GL_PRIMARY, R7 FDL\$AB_PRICTRL, R6 LIB\$SIGNAL, R5 NXTPRINUM, R4 FDL\$AB_CTRL, R3 32(TPARSE_BLOCK), PRIMASK FDL\$AB_CTRL	125
		63 80	8F	8A	0003B	BICB2	#128, FDL\$AB_CTRL	126
	06	63 40	06 8F	8A	00041 1\$:	BRB BBC BICB2	#6, FDL\$AB_CTRL, 2\$ #64, FDL\$AB_CTRL	126
		00000006	06 8F 09 8F 01	11	00049 0004B 2\$:	RRR		127
	04 0	9 65 8 67 02	01	FB E1	00051	BBC	WFDL\$_NULLPRI #1, LIB\$SIGNAL #1, FDL\$AB_CTRL+2, 4\$ FDL\$AB_CTRE+2, 11\$	127
	041		50	D4	0005D 4\$:	CLRL	RO PRIMASK, #1052	1270 1270 129
			02	13 06	00064 00066	BEQL	RO	
		66	36	13	00068 5\$: 0006B	BITL	PRIMASK, FDL\$AB_PRICTRL 9\$ RO, 8\$	128
		24 50 0B	A3022026070F0A0509	DD FB1 E943 103 103 100 13	0004B 2\$: 00051 3\$: 00059 4\$: 00059 4\$: 00066 00068 5\$: 00068 00070 00073 00076 00078 00078 00078 00082 00085 00085 00085 00086 00096 00096 00096 00096 00087 10\$: 00081 00083 00086 00087 10\$: 00083 00086 00087 10\$: 00086 10\$: 00087 10\$: 00087 10\$: 00088 10\$: 00098 10\$: 00098 10\$: 00098 10\$: 00098 10\$: 00088 10\$:	CMPL	FDL\$GL_PRIMARY, RO RO, #1T	128 130
		05	0F 50	13 01	00076 00078	BEQL CMPL	6\$ RO. #5	: 130
		04	50	D1 13 D1 13	0007b	CMPL	6\$ RO, #4	130
		03	50	01	00082	CMPL	6\$ RO, #3	130
		64	68	D1 12	00087 6\$:	BNEQ CMPL BNEQ INCL	FDL\$GL_PRINUM, NXTPRINUM	131
			64	12 06 11	0008C 0008E	INCL	NXTPRINUM 11\$	131
			64	D4 11	00090 7\$: 00092	CLRL BRB	NXTPRINUM 11\$; 132 ; 130 ; 132
			626344091F3	DD	00094 8\$: 00096	PUSHL	FDL\$GL_STMNTNUM	132
		65 00000000G	8F 03	DD DD FB 11	00098 0009E	CALLS	#FDL\$_MULPRI #3, LIB\$SIGNAL 11\$	1
		1E	21 50 68 05	E9	000A1 000A3 9\$:	BRB	11\$ RO, 11\$; 1289 ; 1339 ; 1340
		41	05	E9 05 12 00 11	8A000	BNEQ	RO, 11\$ FDL\$GL_PRINUM 10\$	
		64	15	11	000AD 000AF 10\$:	BRB BUSHI	#1, NXTPRINUM 11\$	134
		0000000G	01	DD	000B1	PUSHL	FDL\$GL_STMNTNUM	134
		65 50 00000000G	01 15 69 01 8F 03 8F	DD DD FB D04	000B9 000BC	BRB CLRL BRB PUSHL PUSHL CALLS BRB TSTL BNEQ MOVI. BRB PUSHL PUSHL PUSHL CALLS MOVI RET	#FDL\$_OUTORDER #3, LIB\$SIGNAL #FDL\$_SYNTAX, RO	134
		66	52	04	000C3 000C4 11\$:	RET BISL2	PRIMASK, FDLSAB_PRICTRL FDLSGL_PRIMARY	135

V

; Routine Size: 221 bytes, Routine Base: _FDL\$CODE + 017E

```
E 10
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
VO4-000
                                                                     VAX-11 FDL Utilities
SET_SECONDARY
                                                                                                                                                                                                                                                                                                                                                                                          VAX-11 Bliss-32 V4.0-742 EFDL.SRCJFDLDRIVER.B32;1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Page 20 (9)
                                                                                                      SSBTTL 'SET SECONDARY'
GLOBAL ROUTINE FDL$$SET_SECONDARY =
           \\bar{1} \\ \bar{1} \\ \bar{1} \\ \bar{1} \\ \bar{2} \\ \bar{3} \\ \bar{2} \\ \bar{3} \\ \ar{3} \\ \bar{3} \\ \ar{3} \\ \ar{3} \\ \ar{3} \\ \ar{3} \\ \ar{3} \\ \ar{3
                                                                                                               Functional Description:
                                                                                                               Calling Sequence:
                                                                                                               Input Parameters:
                                                                                                                                        none
                                                                                                                implicit Inputs:
                                                                                                                                        none
                                                                                                               Output Parameters:
                                                                                                                                        none
                                                                                                                Implicit Outputs:
                                                                                                                                        none
                                                                                                               Routine Value:
                                                                                                                                        none
                                                                                                               Side Effects:
                                                                                                                                        none
                                                                                                                       BEGIN
                                                                                                                      TPARSE_ARGS;
                                                                                                                     SECBIT : LONG;
                                                                                                                       SECBIT = .TPARSE_BLOCK [ TPA$L_PARAM ];
                                                                                                                               See if the secondary has been defined before
                                                                                                                        IF .FDL$AB_SECCTRL [ .SECBIT ] THEN
                                                                                                                                                If it has then see if it was a key segment thing
                                                                                                                                                .SECBIT EQLU FDL$C_SEGPOS )
                                                                                                                                          ( .SECBIT EQLU FDL$C_SEGLEN )
                                                                                                                                                  .SECBIT EQLU FDL$C_SEGTYP )
                                                                                                                                         ) THEN
                                                                                                                                                          BEGIN
                                                                                                                                                            ! If it's out of bounds it's an error
                                                                                                                                                           IF .FDL$GL_SECNUM GTR 7
```

```
F 10
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
V04-000
                         VAX-11 FDL Utilities
SET_SECONDARY
                                                                                                                                            VAX-11 Bliss-32 V4.0-742
EFDL.SRCJFDLDRIVER.B32:1
                                                                                                                                                                                                      Page
                                                              BEGIN
SIGNAL ( FDL$ UNSECKW, 3,
.FDL$GL_STMNTNUM,
.TPARSE_BLOCK [ TPA$L_TOKENCHT ],
.TPARSE_BLOCK [ TPA$L_TOKENPTR ] );
RETURN FDL$_SYNTAX
    END
                                                  ELSE
                                                          ! If it has been defined before it's only a warning
                                                         SIGNAL ( FDLS_MULSEC, 1, . FDLSGL_STMNTNUM )
                                            ELSE
                                                   ! Flag it for next time (unless it's an ACL ENTRY - which can be repeated)
                         1446
1447
1448
1449
1450
1451
1452
                                                   IF .SECBIT NEQU FDLSC_ACE
                                                   THEN
                                                         FDL$AB_SECCTRL [ .SECBIT ] = _SET;
                                               Get ready for a new an wonderous qualifier
                                            FDL$GL_QUALIFIER = _CLEAR;
                                            RETURN SS$_NORMAL
                                            END:
                                                                                       001C 00000
0 9E 00002
0 9E 00009
0 9E 00010
C D0 00017
0 E1 00018
0 D1 00016
2 13 00026
                                                                                                                                  FDL$$SET_SECONDARY, Save R2,R3,R4
FDL$AB_SECCTRL, R4
LIB$SIGNAL, R3
                                                                                                                      .ENTRY
                                                                                                                                                                                                            1373
                                                                  00000000G
00000000G
00000000G
                                                                                                                      MOVAB
                                                                                    000A5002090201
                                                                                                                      MOVAB
                                                                                                                                  FDL$GL_STMNTNUM, R2
32(TPARSE_BLOCK), SECBIT
SECBIT, FDL$AB_SECCTRL, 3$
SECBIT, #134
                                                                                                                      MOVAB
                                                                                                                                                                                                            1407
1411
1417
                                                                                                                      MOVL
                                                                                                                      BBC
                                            00000086
                                                                                                                      CMPL
                                                                                                                      BEQL
                                                              8F
                                                                                                                      CMPL
                                             00000085
                                                                                                                                   SECBIT, #133
                                                                                                                                                                                                            1419
                                                                                                                      BEQL
                                                                                                                                  SECBIT, #135
                                            00000087
                                                                                                                      CMPL
                                                                                                                                                                                                            1421
                                                                                                                      BNEQ
                                                                                          D1
15
                                                              07 00000000G
                                                                                                                      CMPL
                                                                                                                                                                                                            1427
                                                                                                                                   FDL$GL_SECNUM, #7
                                                                                                                      BLEQ
                                                                                     AC
62
03
                                                              7E
                                                                            10
                                                                                          7D DD DD B DO 04
                                                                                                                      MOVQ
                                                                                                                                  16(TPARSE_BLOCK), -(SP)
FDL$GL_STMNTNUM
                                                                                                                      PUSHL
                                                                                                                      PUSHL
                                                                                                                                  #FDL$ UNSECKW
#5, LIB$SIGNAL
#FDL$_SYNTAX, RO
                                                                   0000000G
                                                                                                                      PUSHL
                                                              63
50 00000000G
                                                                                                                      CALLS
                                                                                                                                                                                                            1434
                                                                                                                      MOVL
                                                                                                                      RET
                                                                                          0000
                                                                                                                      PUSHL
                                                                                                        28:
                                                                                                                                                                                                            1441
                                                                                                                                   FDL$GL_STMNTNUM
                                                                                                                      PUSHL
                                                                   0000000G
                                                                                                                      PUSHL
                                                                                                                                   #FDL$_MULSEC
```

FDLDRIVER V04-000	VAX-11 FDL Utilities SET_SECONDARY		G 10 16-Sep-1984 01:47:45 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:31:17 [FDL.SRCJFDLDRIVER.B32;1	Page 22 (9)
	00	63 08 64 50 000000006	03 FB 00066 09 11 00069 50 D1 0006B 3\$: CMPL SECBIT, #8 04 13 0006E BEQL 4\$ 50 E2 00070 BBSS SECBIT, FDL\$AB_SECCTRL, 4\$ 00 D4 00074 4\$: CLRL FDL\$GL_QUALIFIER 01 D0 0007A MOVL #1, R0	1416 1446 1448 1452 1454 1456

; Routine Size: 126 bytes. Routine Base: _FDL\$CODE + 025B

:

•

```
H 10
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
VO4-000
                     VAX-11 FDL Utilities START_STR
                                                                                                                      VAX-11 Bliss-32 V4.0-742 
EFDL.SRCJFDLDRIVER.B32;1
                                %SBTTL 'START_STR'
GLOBAL ROUTINE FDL$$START_STR =
   Functional Description:
                                           Initializes the string descriptor
                                   Calling Sequence:
                                           Called from the parse tables
                                   Input Parameters:
                                           none
                                   Implicit Inputs:
                                           none
                                   Output Parameters:
                                           none
                                   Implicit Outputs:
                                           none
                                   Routine Value:
                                           none
                                   Side Effects:
                                           none
                                     BEGIN
                                     TPARSE_ARGS;
                                     ! Start the makings of a descriptor
                                     FDL$AB_STRING [ DSC$A_POINTER ] = .TPARSE_BLOCK [ TPA$L_TOKENPTR ];
                                      ! Process blanks
                                     TPARSE_BLOCK [ TPA$V_BLANKS ] = _SET;
                                     RETURN SS$_NORMAL
                                     END:
                                                                                                  ENTRY
MOVL
BISB2
MOVL
RET
                                                                                                             FDL$$START_STR, Save nothing
20(TPARSE_BLOCK), FDL$AB_STRING+4
#1, 4(TPARSE_BLOCK)
#1, R0
                                                                                                                                                                           1458
1495
1499
1501
1503
                                     000000006
                                                    00
AC
50
```

FDLDRIVER VO4-000

VAX-11 FDL Utilities START_STR

I 10 16-Sep-1984 01:47:45 VAX-11 BLiss-32 V4.0-742 14-Sep-1984 12:31:17 [FDL.SRCJFDLDRIVER.B32;1

Page 24 (10)

; Routine Size: 18 bytes, Routine Base: _FDL\$CODE + 0209

```
J 10
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
VO4-000
                  VAX-11 FDL Utilities END_STR
                                                                                                  VAX-11 Bliss-32 V4.0-742 [FDL.SRC]FDLDRIVER.B32;1
                           ASBITL 'END STR'
GLOBAL ROUTINE FDL$$END_STR =
                  Functional Description:
                                    Terminates the processing of a string and determines the length
                             Calling Sequence:
                                    Called from the parse tables
                             Input Parameters:
                                    none
                             Implicit Inputs:
                                    none
                             Output Parameters:
                                    none
                             Implicit Outputs:
                                    none
                             Routine Value:
                                   none
                             Side Effects:
                                   none
                               BEGIN
                             SAVE LEN CUT_CEN
                                                     : WORD,
                                                      : WORD;
                               TPARSE_ARGS;
                               TPARSE_BLOCK [ TPA$V_BLANKS ] = _CLEAR;
                               ! The size is from where we are minus from where we is
                               FDL$AB_STRING [ DSC$W_LENGTH ] = .TPARSE_BLOCK [ TPA$L_STRINGPTR ] -
                                                                        .FDLSAB_STRING [ DSCSA_POINTER ];
                                ! If the last char was a "!" then subtract one
                               IF .TPARSE_BLOCK [ TPA$B_CHAR ] EQL COMMENT_MARK
                                   FDLSAB_STRING [ DSCSW_LENGTH ] = .FDLSAB_STRING [ DSCSW_LENGTH ] - 1;
                                 Save this length
                               SAVE_LEN = .FDL$AB_STRING [ DSC$W_LENGTH ];
```

```
K 10
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
VO4-000
                    VAX-11 FDL Utilities END_STR
                                                                                                               VAX-11 Bliss-32 V4.0-742 
EFDL.SRCJFDLDRIVER.832;1
                                                                                                                                                            Page 26 (11)
    Remove trailing blanks
                    STRSTRIM ( FDLSAB_STRING, FDLSAB_STRING, CUT_LEN );
                                     Set the trimmed length
                                    FDL$AB_STRING [ DSC$W_LENGTH ] = .CUT_LEN;
                                     Remove any leading white space from the string
                                   FDL$AB_STRING [ DSC$W_LENGTH ] = TRIM_LEADING ();
                                     Remove any quotes from the upcased string
                                   FDL$AB_STRING [ DSC$W_LENGTH ] = EXTRACT_QUOTE ();
                                    ! Adjust the pointer so that we are looking into the original input line
                                   FDL$AB_STRING [ DSC$A_POINTER ] = .FDL$AB_STRING [ DSC$A_POINTER ] -
                                                                                                               .FDL$GL_MAXLINE;
                                     Restore the original length
                                   FDL$AB_STRING [ DSC$W_LENGTH ] = .SAVE_LEN;
                                     Remove trailing blanks
                                    STR$TRIM ( FDL$AB_STRING, FDL$AB_STRING, CUT_LEN );
                                     Set the trimmed length
                                   FDL$AB_STRING [ DSC$W_LENGTH ] = .CUT_LEN;
                                     Remove any leading white space from the string
                                   FDL$AB_STRING [ DSC$W_LENGTH ] = TRIM_LEADING ();
                                     Remove any quotes from the original string
                                   FDL$AB_STRING [ DSC$W_LENGTH ] = EXTRACT_QUOTE ();
                                   RETURN SS$_NORMAL;
                                   END:
                                                                     007C
9E
9E
9E
22
8A
8A
                                                                           00000
00002
00009
00010
00017
0001E
00021
                                                                                                       FDL$$END_STR, Save R2,R3,R4,R5,R6
EXTRACT_QUOTE, R6
TRIM_LEADING, R5
STR$TRIM, R4
FDL$AB_STRING, R3
                                                                                             .ENTRY
MOVAB
                                                                                                                                                                 1505
                                                     00000000V
00000000V
00000000G
00000000G
                                                                   00
00
00
04
01
A3
                                                                                              MOVAB
                                                                                              MOVAB
                                                                                             MOVAB
SUBL 2
BICB2
                                                                                                       #4, SP
#1, 4(TPARSE_BLOCK)
FDL$AB_STRING+4, 12(TPARSE_BLOCK), -
                                           04
                                                                                                                                                                 1544
                                63
                                                                                             SUBW3
                                                            04
```

FDLDRIVER V04-000	VAX-11 FDL Utilities END_STR		L 10 16-Sep-1984 01:47:45 VAX-11 Bliss-32 V4.0-742 Page 14-Sep-1984 12:31:17 [FDL.SRCJFDLDRIVER.B32;1	ge 27 (11)
	04	21 18 52 4008 64 63 65 63 64 63 65 63 65 63 65 63 65 63 65 63 65 63 65 63 65 63 65 63 65 63 65 63 65 63 65 63 65 63 65 63	AC 91 0002B	1553 1555 1559 1563 1563 1567 1571 1575 1584 1584 1588 1596 1600
; Routine Size	: 117 bytes, Routin		01 D0 00071 MOVL #1, R0 04 00074 RET	1602 1604

```
M 10
FDLDRIVER
V04-000
                       VAX-11 FDL Utilities EXTRACT_QUOTE
                                                                                          16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
                                                                                                                            VAX-11 Bliss-32 V4.0-742 
[FDL.SRC]FDLDRIVER.B32;1
                                  *SBTTL 'EXTRACT QUOTE'
ROUTINE EXTRACT QUOTE =
    160078990123456789012345678901233456789012345678901
16007899012345678901234567890123456789012345678901
160078990112345678901234567890123456789012345678901
Functional Description:
                                             It also extracts out embedded or bracketing quotes or apostrophes
                                     Calling Sequence:
                                             Called from END_STR
                                     Input Parameters:
                                             none
                                     Implicit Inputs:
                                             none
                                     Output Parameters:
                                             none
                                     Implicit Outputs:
                                             none
                                     Routine Value:
                                             The new string length - after the quotes are removed.
                                     Side Effects:
                                             none
                                       BEGIN
                                       LOCAL
                                             QCHAR
                                                        : BYTE,
                                                        : LONG.
                                             NEW_LEN : LONG,
                                             CUT_LEN : LONG.
                                             STR : REF VECTOR [ ,BYTE ],
TMP_STR : REF VECTOR [ ,BYTE ];
                                       NEW_LEN = .FDL$AB_STRING [ DSC$W_LENGTH ];
                                          Now extract out any bracketing or embedded quotes or apostrophes
                                        IF .FDL$AB_CTRL [ FDL$V_QUOTE_PRES ] OR .FDL$AB_CTRL [ FDL$V_APOST_PRES ] THEN
                                             BEGIN
                                             CUT_LEN = .FDL$AB_STRING [ DSC$W_LENGTH ];
TMP_STR = FDL$$GET_VM ( .CUT_LEN );
                                             STR = .FDL$AB_STRING [ DSC$A_POINTER ];
                                             IF .FDL$AB_CTRL [ FDL$V_QUOTE_PRES ] THEN
```

```
N 10
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
V04-000
                    VAX-11 FDL Utilities EXTRACT_QUOTE
                                                                                                             VAX-11 Bliss-32 V4.0-742 [FDL.SRC]FDLDRIVER.B32;1
                                             QCHAR = ""
  ELSE IF .FDL$AB_CTRL [ FDL$V_APOST_PRES ]
                                        THEN
                                             QCHAR = """:
                                        CH$MOVE ( .CUT_LEN, .FDL$AB_STRING [ DSC$A_POINTER ], .TMP_STR );
                                        NEW_LEN = 0;
                                        WHILE .J LEQ (.CUT_LEN - 1)
                                        DO
                                             BEGIN
                                               Now copy the string back, but stripping the QCHARs according to the rules that embedded " ==> " and ' ==> "
                                             IF .TMP_STR [ .J ] EQLU .QCHAR
                                             THEN
                                                  BEGIN
                                                    If we're not at the beginning or end of the string,
                                                    copy one gchar and skip the next
                                                  IF NOT ((.J EQLU 0) OR (.J EQLU (.CUT_LEN-1)))
                                                  THEN
                                                       BEGIN
                                                       IF .TMP_STR [ .J+1 ] EQLU .QCHAR
                                                       THEN
                                                            J = .J + 1;
                                                      STR [ .NEW_LEN ] = .TMP_STR [ .J ];
NEW_LEN = .NEW_LEN + 1
                                                       END:
                                                 END
                                            ELSE
                                                    Just copy the character back and bump the count
                                                 BEGIN
STR [ .NEW_LEN ] = .TMP_STR [ .J ];
NEW_LEN = .NEW_LEN + 1
END;
                                             J = .J + 1;
                                             END:
                                                            ! do
                                          Release the tmp string
                                        FDL$$FREE_VM ( .CUT_LEN, .TMP_STR );
                    1716
1717
                                        END:
                                                  ! IF QUOTE OR APOST PRESENT
                    1718
                                   ! The routine value is the new length
```

CUT_LEN, -(SP) #2, FDL\$\$FREE_VM NEW_LEN, RO

MOVQ

MOVL RET

8\$:

FD VO

Routine Base: _FDL\$CODE + 0360 ; Routine Size: 136 bytes,

0000000G

8A48

```
C 11
16-Sep-1984 C1:47:45
14-Sep-1984 12:31:17
FDLDRIVER
V04-000
                  VAX-11 FDL Utilities TRIM_LEADING
                                                                                                      VAX-11 Bliss-32 V4.0-742 [FDL.SRCJFDLDRIVER.B32;1
*SBTTL 'TRIM_LEADING' ROUTINE TRIM_LEADING =
                  Functional Description:
                                     It removes leading spaces and tabs from the input string
                              Calling Sequence:
                                     Called from END_STR
                              Input Parameters:
                                     none
                              Implicit Inputs:
                                     none
                              Output Parameters:
                                     none
                              Implicit Outputs:
                                     none
                              Routine Value:
                                     The new string length - after the white space is removed.
                              Side Effects:
                                     none
                                BEGIN
                                LOCAL
                                     FLAG
                                              : BYTE.
                                     TMP
                                     BLANK
                                     TAB
                                                BYTE.
                                                LONG.
                                     NEW_LEN :
CUT_LEN :
STR :
                                                LONG,
                                                LONG,
                                     STR : REF VECTOR [ ,BYTE ];
                                BLANK = ' ';
                                TAB = '...FDL$AB_STRING [ DSC$A_POINTER ];
                                NEW_LEN = .FDL$AB_STRING [ DSC$W_LENGTH ];
                                  Now extract out any bracketing or embedded quotes or apostrophes
                                 IF (.TMP EQLU .BLANK) OR (.TMP EQLU .TAB)
                                     BEGIN
```

```
D 11
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
VO4-000
                                                          VAX-11 FDL Utilities TRIM_LEADING
                                                                                                                                                                                                                                                                                                                                  VAX-11 Bliss-32 V4.0-742 [FDL.SRC]FDLDRIVER.B32;1
                                                                                                                     CUT_LEN = .FDL$AB_STRING [ DSC$W_LENGTH ];
TMP_STR = FDL$$GET_VM ( .CUT_LEN );
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                                                                                                                     STR = .FDL$AB_STRING [ DSC$A_POINTER ];
                                                                                                                     CH$MOVE ( .CUT_LEN, .FDL$AB_STRING [ DSC$A_POINTER ], .TMP_STR );
                                                                                                                    NEW_LEN = 0;
J = 0;
                                                                                                                     FLAG = _CLEAR;
                                                                                                                     WHILE .J LEQ (.CUT_LEN - 1)
                                                                                                                                    BEGIN
                                                                                                                                     ! Now copy the string back, but stripping the white space
                                                                                                                                     IF (.TMP_STR [ .J ] EQLU .BLANK) OR (.TMP_STR [ .J ] EQLU .TAB)
                                                                                                                                    THEN
                                                                                                                                                  BEGIN
                                                                                                                                                          If we have seen the a non-white character
                                                                                                                                                         just copy this blank or tab like any other char
                                                                                                                                                    IF .FLAG
                                                                                                                                                   THEN
                                                                                                                                                                BEGIN
                                                                                                                                                                STR [ .NEW_LEN ] = .TMP_STR [ .J ];
NEW_LEN = .NEW_LEN + 1
                                                                                                                                                                END;
                                                                                                                                                  END
                                                                                                                                   ELSE
                                                                                                                                                         Just copy the character back and bump the count
                                                                                                                                                  BEGIN
                                                                                                                                                 FLAG = SET;
STR [ .New_LEN ] = .TMP_STR [ .J ];
NEW_LEN = .NEW_LEN + 1
                                                                                                                                                  END:
                                                                                                                                    J = .J + 1;
                                                                                                                                                                              ! do
                                                                                                                                   END:
                                                                                                                          Release the tmp string
                                                                                                                    FDL$$FREE_VM ( .CUT_LEN, .TMP_STR );
                                                                                                                                          ! IF THERE IS LEADING WHITE SPACE
                                                                                                             The routine value is the new length
                                                                                                      RETURN . NEW_LEN:
```

FI

				0	FFC	00000	TRIM_LE	ADING:		
		5B 5A 50	000000006	2006005505555050505555560	99000013120DB00084	00002 00005 00008 0000F		.WORD MOVB MOVL MOVB MOVZWL	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 #32, BLANK #9, TAB FDL\$AB_STRING+4, R0 (R0), TMP FDL\$AB_STRING, R0 R0, NEW_LEN TMP, BLANK	: 1724 : 1768 : 1769 : 1770
		50 59 58	0000000G	50	3C D0	00012 00019 00010 0001F 00021 00024 00026		MOVZWL MOVL CMPB	FDLSAB STRING, RO	1772
		5A		05	13	0001F 00021		BEQL CMPB	1\$ IMP, TAB	1776
		56		53	12	00024	15:	BEQL CMPB BNEQ MOVL PUSHL CALLS	RO, CUT_LEN	1780 1781
	0000000G	57	00000000	01 50	FB	00029 00028 00032 00035 00036 00043		CALLS	#1, FDL\$\$GET_VM R0, TMP_STR FDL\$AB_STRING+4, R0 R0, STR CUT_LEN, (R0), (TMP_STR)	:
		50	000000006	50	00	00035 0003C		MOVL MOVL MOVC3	RO, STR	: 1783
67		60		56 59 50	28	0003F 00043 00045		CLRL	J NEW_LEN	: 1785 : 1787 : 1788
		51 51	FF	A6 50 1D	94 9E 01 14	00045 00047 00049 00040	2\$:	CLRB MOVAB CMPL BGTR CMPB	FLAG -1(R6), R1 J, R1 7\$	1789
		5B	6	047	91	00052		CMPB	(J)[TMP_STR], BLANK	1797
		5A	6	047	91	00050 00052 00056 00058 0005C		BEQL CMPB	(J) [TMP_STR], TAB	
		OA		52	91 12 E9	0005E	3\$:	BLBC	4\$ FLAG, 6\$ 5\$	1804
	8	52 948	6	05 05 01 047 05 05 05 05 05 05 05 05 05 05 05 05 05	90 90 06 11	00061 00063 00066 0006B 0006D	4\$: 5\$: 6\$:	BNEQ BLBC BRB MOVB MOVB INCL	(J)[TMP_STR], (NEW_LEN)+[STR]	; 1808 ; 1818 ; 1819 ; 1824
	00000000G	7E 00 50		56	7D FB DO 04	0006F 00072 00079 0007C	7\$: 8\$:	BRB MOVQ CALLS MOVL RET	2\$ CUT_LEN, -(SP) #2, FDL\$\$FREE_VM NEW_LEN, RO	1791 1830 1836 1838

Page 33 (13)

; Routine Size: 125 bytes, Routine Base: _FDL\$CODE + 03E8

```
F 11
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
 FDLDRIVER
V04-000
                                                                 VAX-11 FDL Utilities SET_DATE_TIME
                                                                                                                                                                                                                                                                                                                                                               VAX-11 Bliss-32 V4.0-742 EFDL.SRCJFDLDRIVER.B32:1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Page 34 (14)
                                                                                                %SBTTL 'SET DATE TIME'
GLOBAL ROUTINE FDL$$SET_DATE_TIME =
113334567890123445678901233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233456712334567123345671233457123345712334571233457123345712334571233457123345712334571233457123345712334571233457123345712334571233457123345712334571233457123345712334571233457123345712334571233457123345712334571233457123345712334571233457123345712334571233457123345712334571233457123345712334571233457123345712334571233457123345712334571233
                                                                Functional Description:
                                                                                                                                 Sets up the date/time quadword
                                                                                                        Calling Sequence:
                                                                                                                                 Called from the parse tables
                                                                                                         Input Parameters:
                                                                                                                                none
                                                                                                         Implicit Inputs:
                                                                                                                                none
                                                                                                         Output Parameters:
                                                                                                                                none
                                                                                                         Implicit Outputs:
                                                                                                                                none
                                                                                                        Routine Value:
                                                                                                                                none
                                                                                                         Side Effects:
                                                                                                                BEGIN
                                                                                                               TPARSE_ARGS;
                                                                                                                LOCAL
                                                                                                                                TEMP_DESC
                                                                                                                                                                                                : DESC_BLK;
                                                                                                                       We must adjust the pointer so it points to the upcased buffer
                                                                                                                TEMP_DESC [ DSC$W_LENGTH ] = .FDL$AB_STRING [ DSC$W_LENGTH ];
TEMP_DESC [ DSC$A_POINTER ] = .FDL$AB_STRING [ DSC$A_POINTER ] +
                                                                                                                                                                                                                                                                 .FDLSGL_MAXLINE;
                                                                                                                  ! If there is an error signal it and return failure
                                                                                                                 IF NOT SYS$BINTIM( TEMP_DESC, FDL SAL_DATE_TIME )
                                                                                                                 THEN
                                                                                                                               BEGIN
                                                                                                                               BUILTIN CALLG:
                                                                                                                               TPARSE_BLOCK [ TPA$L_PARAM ] = FDL$_INVDATIM;
                                                                                                                                CALLG( .TPARSE_BLOCK, FDL$$SYNTAX_ERROR );
```

FDLDRIVER V04-000 : 1187 : 1188 : 1189 : 1190 : 1191 : 1192 : 1193	VAX-11 FDL Utilities SET_DATE_TIME 1896 3 RETURN 0 1897 3 1898 2 END; 1899 2 1900 2 RETURN SS\$_NORMAL 1901 2 1902 1 END;	G 11 16-Sep-1984 01:47:45 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:31:17 [FDL.SRCJFDLDRIVER.B32;1	Page 35 (14)
	04 AE 000000006 00 00000000 00000000 00 000000000 00 11 20 AC 0000000 00000000 00 50	00G 00 C1 0000C ADDL3 FDL\$GL_MAXLINE, FDL\$AB_STRING+4, - TEMP_DESC+4 00G 00 9F 00019 PUSHAB FDL\$AL_DATE_TIME 04 AE 9F 0001F PUSHAB TEMP_DESC 02 FB 00022 CALLS #2, SYS\$BINTIM 50 E8 00029 BLBS R0, 1\$; 1840 ; 1880 ; 1882 ; 1886 ; 1894 ; 1896 ; 1900 ; 1902

; Routine Size: 68 bytes, Routine Base: _FDL\$CODE + 0465

```
H 11
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
V04-000
                    VAX-11 FDL Utilities
SET_COMMENT
                                                                                                               VAX-11 Bliss-32 V4.0-742 EFDL.SRCJFDLDRIVER.B32;1
                              %SBTTL 'SET_COMMENT'
GLOBAL ROUTINE FDL$$SET_COMMENT =
  Functional Description:
                                        Sets up the comment descriptor
                                 Calling Sequence:
                                        Called from the parse tables
                                 Input Parameters:
                                        none
                                 Implicit Inputs:
                                 Output Parameters:
                                 Implicit Outputs:
                                 Routine Value:
                                        none
                                 Side Effects:
                                        none
                                   BEGIN
                                   TPARSE_ARGS;
                                   ! The comment is the rest of the line
                                   FDL$AB_COMMENT [ DSC$W_LENGTH ] = .TPARSE_BLOCK [ TPA$L_STRINGCNT ] + 1;
FDL$AB_COMMENT [ DSC$A_POINTER ] = .TPARSE_BLOCK [ TPA$L_STRINGPTR ] - 1;
                                     Adjust the pointer so that we are looking into the original input line
                                   FDL$AB_COMMENT [ DSC$A_POINTER ] = .FDL$AB_COMMENT [ DSC$A_POINTER ] -
                                                                                                               .FDL$GL_MAXLINE;
                                   RETURN SS$_NORMAL
                                   END:
```

0000000G FC A2

FDL\$\$SET_COMMENT, Save R2
FDL\$AB_COMMENT+4, R2
#1, 8(TPARSE_BLOCK), FDL\$AB_COMMENT .ENTRY MOVAB ADDW3

1904

: 1941

FDLDRIVER VO4-000

VAX-11 FDL Utilities SET_COMMENT

1 11 16-Sep-1984 01:47:45 14-Sep-1984 12:31:17

VAX-11 Bliss-32 V4.0-742 LFDL.SRCJFDLDRIVER.B32;1

Page 37 (15)

62

AC 00000000G 01 C3 0000F 02 00014 01 00 0001B 04 0001E

SUBL3 SUBL2 MOVL RET

#1, 12(TPARSE_BLOCK), FDL\$AB_COMMENT+4
FDL\$GL_MAXLINE, FDL\$AB_COMMENT+4
#1, RO

: 1942 : 1947 : 1949 : 1951

; Routine Size: 31 bytes, Routine Base: _FDL\$CODE + 04A9

```
K 11
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
V04-000
                       VAX-11 FDL Utilities
SYNTAX_ERRROR
                                                                                                                              VAX-11 Bliss-32 V4.0-742 [FDL.SRC]FDLDRIVER.B32;1
                                                                                                                                                                                  Page 39 (16)
  else signal the error
                                        IF ( ( .STATUS EQLU FDL$_ABKW ) OR ( .STATUS EQLU FDL$_ABPRIKW ) ) AND ( NOT .TPARSE_BLOCK [ TPA$V_AMBIG ] )
                                        THEN
                                              RETURN 0;
                                         ! If this is not a information message the set some error flags
                               することととととととととととととととととととととと
                                        IF ( NOT ( .CODE [ STS$V_SEVERITY ] EQLU STS$K_INFO ) )
                                              ! Say that there is an error on this secondary
                                              FDL$AB_CTRL [ FDL$V_WARNING ] = _SET;
                                           Signal the error with:
                                              a) Line number
                                                  Length of the current token
                                                  Pointer to the token
                                                  Length of the remainer of the line
                                              e) Pointer to the rest of the line
                                       RETURN SS$_NORMAL
                                        END:
                                                                                                                      FDL$$SYNTAX_ERROR, Save nothing 32(TPARSE_BEOCK), STATUS STATUS, #FDL$_ABKW
                                                                                     00000
00002
00006
0000F
00016
00018
00021
00023
00028
00038
00038
00038
00034
00047
                                                                               0000
                                                                                                           .ENTRY
                                                                                                                                                                                        1953
                                                                                 DO
D1
13
                                                                                                                                                                                        2006
                                                                                                           MOVL
                                                                            AC090504C0078CC09C070
                                        0000000G
                                                                                                           CMPL
                                                                                                           BEQL
                                                                                                                     STATUS, WFDLS_ABPRIKW
28
6(TPARSE_BLOCK), 48
WO, W3, CODE, W3
                                                                                                          CMPL
BNEQ
                                        0000000G
                                                                                  012903800000B04
                                                        20
                                                                                                          BLBC
                                                                     06
                03
                                    50
                                                                                                           BEQL
                                                        00
7E
7E
                                                                                                                      #8, FDL$AB_CTRL
8(TPARSE_BEOCK), -(SP)
16(TPARSE_BLOCK), -(SP)
FDL$GL_STMNTNUM
                                        0000000G
                                                                                                           BISB2
                                                            08
10
00000006
                                                                                                           MOVQ
                                                                                                           MOVQ
                                                                                                           PUSHL
                                                                                                                     32(TPARSE_BLOCK)

#7, LIB$SIGNAL

#1, RO
                                                                                                           PUSHL
                                                                     20
                                                                                                           PUSHL
                                        0000000G
                                                                                                           CALLS
                                                                                                                                                                                        2040
                                                                                                           MOVL
                                                                                                           RET
```

FDLDRIVER V04-000

VAX-11 FDL Utilities SYNTAX_ERRROR

L 11 16-Sep-1984 01:47:45 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:31:17 [FDL.SRCJFDLDRIVER.B32;1

Page 40 (16)

50 D4 00048 4\$:

CLRL

: 2042

; Routine Size: 75 bytes, Routine Base: _FDL\$CODE + 04C8

```
M 11
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
                       VAX-11 FDL Utilities
NEGATE
FDLDRIVER
V04-000
                                                                                                                                VAX-11 Bliss-32 V4.0-742 [FDL.SRCJFDLDRIVER.B32;1
                                   *SBTTL 'NEGATE'
GLOBAL ROUTINE FDL$$NEGATE : NOVALUE =
  133390123445678901234555678901336667890123777567890
133344234456789012345556789013366678901237777890
                                     Functional Description:
                                              Produces the negative version of a number
                                     Calling Sequence:
                                              Called from the parse tables
                                      Input Parameters:
                                              none
                                      Implicit Inputs:
                                              none
                                     Output Parameters:
                                              none
                                      Implicit Outputs:
                                              none
                                     Routine Value:
                                              none
                                     Side Effects:
                                              none
                                        BEGIN
                                        TPARSE_ARGS;
                                        ! Just negate the number
                                        FDL$GL_NUMBER = -.FDL$GL_NUMBER;
                                        RETURN
                                        END:
                                                                               0004 00000
9E 00002
CE 00009
04 0000C
                                                                                                                      FDL$$NEGATE, Save R2
FDL$GL_NUMBER, R2
FDL$GL_NUMBER, FDL$GL_NUMBER
                                                                                                           .ENTRY
                                                                                                                                                                                         2044
                                                        52 00000000G
                                                                                                           MNE GL
RET
                                                                                                                                                                                         2082
2086
; Routine Size: 13 bytes,
                                           Routine Base: _FDL$CODE + 0513
```

```
N 11
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
V04-000
                   VAX-11 FDL Utilities SET_BLANK
                                                                                                             VAX-11 Bliss-32 V4.0-742 [FDL.SRCJFDLDRIVER.B32;1
                             "SBTTL 'SET_BLANK'
GLOBAL ROUTINE FDL$$SET_BLANK : NOVALUE =
  Functional Description:
                                       Sets the Tparse blanks flag to allow parsing of blanks
                                Calling Sequence:
                                       Called from the parse tables
                                Input Parameters:
                                       none
                                Implicit Inputs:
                                       none
                                Output Parameters:
                                       none
                                Implicit Outputs:
                                       none
                                Routine Value:
                                       none
                                Side Effects:
                                  BEGIN
                                  TPARSE_ARGS;
                                  ! Just set the flag
                                  TPARSE_BLOCK [ TPA$V_BLANKS ] = _SET;
                                  RETURN
                                  END:
                                                                                           ENTRY
BISB2
RET
                                                                                                     FDL$$SET_BLANK, Save nothing #1, 4(TPARSE_BLOCK)
```

Routine Base: _FDL\$CODE + 0520

; Routine Size: 7 bytes,

```
FDLDRIVER
V04-000
                     VAX-11 FDL Utilities CLR_BLANK
                                                                                                                       VAX-11 Bliss-32 V4.0-742 [FDL.SRCJFDLDRIVER.B32;1
                                %SBTTL 'CLR BLANK'
GLOBAL ROUTINE FDL$$CLR_BLANK : NOVALUE =
  144433333456789012345678901234567890
1444333333333344444444445553456789012346667890
                     Functional Description:
                                           Clears the Tparse blanks flag
                                   Calling Sequence:
                                           Called from the parse tables
                                   Input Parameters:
                                           none
                                   Implicit Inputs:
                                           none
                                   Output Parameters:
                                           none
                                   Implicit Outputs:
                                           none
                                   Routine Value:
                                           none
                                   Side Effects:
                                           none
                                     BEGIN
                                     TPARSE_ARGS;
                                      ! Just clear the flag
                                     TPARSE_BLOCK [ TPA$V_BLANKS ] = _CLEAR;
                                     RETURN
                                     END:
                                                                          0000 00000
8A 00002
04 00006
                                                                                                    ENTRY
BICB2
                                                                                                              FDL$$CLR_BLANK, Save nothing #1, 4(TPARSE_BLOCK)
; Routine Size: 7 bytes,
                                    Routine Base: _fDL$CODE + 0527
```

FD

```
FDLDRIVER
VO4-000
                     VAX-11 FDL Utilities
ERRROR_CHK
                                                                                                                        VAX-11 Bliss-32 V4.0-742 [FDL.SRCJFDLDRIVER.B32;1
                                %SBTTL 'ERRROR_CHK'
GLOBAL ROUTINE FDL$$ERROR_CHK =
 147777890123456789012345678901234567890123
1447777890123458888901234599901234567890123
1555113151551131550007890123
                     Functional Description:
                                           Does a check if there was a warning
                                   Calling Sequence:
                                           Called from the parse tables
                                   Input Parameters:
                                           none
                                   Implicit Inputs:
                                           none
                                   Output Parameters:
                                           none
                                   Implicit Outputs:
                                           none
                                   Routine Value:
                                           Value of fdl$ab_ctrl [ fdl$v_warning ]
                                   Side Effects:
                                           none
                                      BEGIN
                                      TPARSE_ARGS:
                                      ! If there is a warning return true else fail
                                      RETURN .FDL$AB_CTRL [ FDL$V_WARNING ]
                                      END;
                                                                          0000 00000
EF 00002
04 0000B
                                                                                                               FDL$$ERROR_CHK, Save nothing #3, #1, FDE$AB_CTRL, RO
                                                                                                     .ENTRY
               50 00000000G 00
                                                     01
                                                                                                     EXTZV
                                                                                                     RET
; Routine Size: 12 bytes,
                                         Routine Base: _FDL$CODE + 052E
: 1514
                     2217 1
```

FD

```
D 12
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
V04-000
                     VAX-11 FDL Utilities FDL$$READ_ERROR
                                                                                                                       VAX-11 Bliss-32 V4.0-742 [FDL.SRCJFDLDRIVER.B32;1
                                                                                                                                                                         Page 45 (21)
                                %SBTTL 'FDL$$READ_ERROR'
GLOBAL ROUTINE FDE$$READ_ERROR : NOVALUE =
 Functional Description:
                                           This routine will signal an rms error and stop execution if the RMS error is NOT end of file. It is to be used for detecting errors during rms $GETs or $READs.
                                   Calling Sequence:
                                           This routine is call as an AST by RMS
                                   Input Parameters:
                     AST argument block which has a pointer to a RAB
                                   Implicit Inputs:
                                           none
                                   Output Parameters:
                                           none
                                   Implicit Outputs:
                                           none
                                   Routine Value:
                                           none
                                   Routines Called:
                                           SIGNAL_STOP
                                   Side Effects:
                                           none
                                     BEGIN
                                     BUILTIN
                                           AP:
                                           AST_BLOCK = AP : REF VECTOR [ ,LONG ];
                                    RAB : REF BLOCK [ .BYTE ],
FAB : REF BLOCK [ .BYTE ];
NAM : REF BLOCK [ .BYTE ];
                                      ! Get the rab (Pointer to by the second ast parameter)
                                     RAB = .AST_BLOCK [ 1 ];
                                      ! If this is only an end of file then return
```

FE V

```
E 12
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
V04-000
                        VAX-11 FDL Utilities FDL$$READ_ERROR
                                                                                                                                  VAX-11 Bliss-32 V4.0-742 EFDL.SRCJFDLDRIVER.832:1
                                                                                                                                                                                       Page 46 (21)
.RAB [ RAB$L_STS ] EQLU RMS$_EOF
                                               RETURN:
                                            Now get the fab it points to
                                         FAB = .RAB [ RAB$L_FAB ];
                                            Get the name block
                                         NAM = .FAB [ FAB$L_NAM ];
                                            Signal the FDL error with the best file name string
                                            first try the resultant string
                                          IF .NAM [ NAMSB_RSL ] NEQU O
                                          THEN
                                               BEGIN
                                               STRING_DESC [ DSC$W_LENGTH ] = .NAM [ NAM$B_RSL ];
STRING_DESC [ DSC$A_POINTER ] = .NAM [ NAM$[_RSA ]
                                            Next try the expanded string
                                          ELSE IF .NAM [ NAMSB_ESL ] NEQU O
                                          THEN
                                               BEGIN
                                               STRING_DESC [ DSC$W_LENGTH ] = .NAM [ NAM$B_ESL ];
STRING_DESC [ DSC$A_POINTER ] = .NAM [ NAM$C_ESA ]
                                           If all else fails use the name string
                                         ELSE
                                               BEGIN
                                               STRING_DESC [ DSC$W_LENGTH ] = .FAB [ FAB$B_FNS ];
STRING_DESC [ DSC$A_POINTER ] = .FAB [ FAB$C_FNA ]
                                         SIGNAL_STOP( .RAB [ RAB$L_CTX ],1,STRING_DESC, .RAB [ FAB$L_STY ] )
                                         END:
                                                                                        00000
00002
00009
00000
00015
00017
0001B
                                                                                                                        FDL$$READ_ERROR, Save R2,R3
STRING_DESC, R3
4(AST_BLOCK), RAB
8(RAB), #98938
                                                                                 000C
                                                                                                             .ENTRY
                                                                                                                                                                                            2219
                                                              00000000
                                                                                    9E 00 01 13 00 00
                                                                                                             MOVAB
                                                                       04
08
                                                                                                             MOVL
                                                                                                                                                                                            2272
                                         0001827A
                                                                                                             CMPL
                                                                                                             BEQL
                                                                                                                         60(RAB), FAB
40(FAB), NAM
                                                                                                                                                                                            2282
2286
                                                                                                             MOVL
                                                                                                             MOVL
```

V

FDLDRIVER V04-000	VAX-11 FDL Utilities FDL\$\$READ_ERROR	F 12 16-Sep-1984 01:47:45 VAX-11 Bliss-32 V4.0-742 Page 4 14-Sep-1984 12:31:17 [FDL.SRCJFDLDRIVER.B32;1 (21								
	04	63 A3	03 03 04 08	A0 0B A0 A0 19 A0 0B	95 0001F	2292 2292 2296 2301				
	04	63 A3	0B 0C	0B A0 A0 09	13 00032 9B 00034 D0 00038 11 0003D 9B 0003F 28: MOVZBW 52(FAB), STRING_DESC	2304 2305				
	04	63 A3 7E	34 20 08	A1 A2 53	DO 00043 7D 00048 3\$: MOVQ 8(RAB), -(SP) DD 0004C PUSHL R3	231 231 231 231				
	00000000G	00	18	01 A2 05	DD 0004E PUSHL #1 DD 00050 PUSHL 24(RAB) FB 00053 CALLS #5, LIB\$STOP 04 0005A 4\$: RET	2319				

; Routine Size: 91 bytes, Routine Base: _FDL\$CODE + 053A

; 1618 2320 1

FDLDRIVER V04-000	VAX-11 FDL FDL\$\$RMS_E		H 12 16-Sep-1984 01:47:45 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:31:17 [FDL.SRCJFDLDRIVER.B32;1					
1677 1678 1679	2378 2 2379 2 2380 1	END;	.RMS_	BLOCK	[RAB\$L_STS],.RM			
		00000000G	50 7E 00	04 08 18	0000 00000 AC DO 00002 AO 7D 00006 AO DD 0000A 03 FB 0000D 04 00014	ENTRY MOVL MOVQ PUSHL CALLS RET	FDL\$\$RMS_ERROR, Save nothing 4(AST_BLOCK), RMS_BLOCK 8(RMS_BLOCK), -(SP) 24(RMS_BLOCK) #3, LIB\$STOP	: 232 : 237 : 237 : 237
; Routine Size:	21 bytes,	Routine	Base:	FDL\$CO	DE + 0595			

```
I 12
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
VO4-000
                  VAX-11 FDL Utilities FDL$$RMS_OPEN_ERROR
                                                                                                         VAX-11 Bliss-32 V4.0-742 EFDL.SRCJFDLDRIVER.B32;1
                            "SBTTL 'FDL$$RMS_OPEN_ERROR'
 GLOBAL ROUTINE FDL$$RMS_OPEN_ERROR : NOVALUE =
                              Functional Description:
                                      This routine will signal an rms error and stop execution. It is to be primarly used for detecting errors during file opens.
                              Calling Sequence:
                                     This routine is call as an AST by RMS
                               Input Parameters:
                                      AST argument block which has a pointer to a FAB
                               Implicit Inputs:
                                     none
                              Output Parameters:
                                     none
                               Implicit Outputs:
                                     none
                              Routine Value:
                                     none
                              Routines Called:
                                     SIGNAL_STOP
                              Side Effects:
                                     none
                                 BEGIN
                                 BUILTIN
                                     AP:
                                     AST_BLOCK = AP : REF VECTOR [ ,LONG ];
                                 LOCAL
                                     FAB : REF BLOCK [ ,BYTE ];
                                 ! Get the fab (Pointer to by the second ast parameter)
                                 FAB = .AST_BLOCK [ 1 ];
                                   If this is really a RAB (from a connect) then get the fab it points to
                                 IF .FAB [ FAB$B_BID ] EQLU RAB$C_BID
```

```
J 12
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
V04-000
                         VAX-11 FDL Utilities FDL$$RMS_OPEN_ERROR
                                                                                                                                             VAX-11 Bliss-32 V4.0-742 [FDL.SRC]FDLDRIVER.B32;1
 1739
1743
1743
1744
1744
1744
1753
1753
1753
1753
1763
1764
1766
1766
1766
1766
1766
1766
1767
1777
1777
1777
                                                   FAB = .FAB [ RAB$L_FAB ];
                                                                                                      ! This looks strange but it's ok!
                                             ! Get the name block
                                             NAM = .FAB [ FAB$L_NAM ];
                                               Signal the FDL error with the best file name string
                                               first try the resultant string
                                             IF .NAM [ NAMSB_RSL ] NEQU O
                                                  BEGIN
STRING_DESC [ DSC$W_LENGTH ] = .NAM [ NAM$B_RSL ];
STRING_DESC [ DSC$A_POINTER ] = .NAM [ NAM$[_RSA ]
                                             ! Next try the expanded string
                                             ELSE IF .NAM [ NAMSB_ESL ] NEQU O
                                                  BEGIN
STRING_DESC [ DSC$W_LENGTH ] = .NAM [ NAM$B_ESL ];
STRING_DESC [ DSC$A_POINTER ] = .NAM [ NAM$E_ESA ]
                                             ! If all else fails use the name string
                                            ELSE
                                                   BEGIN
                                                   STRING_DESC [ DSC$W_LENGTH ] = .FAB [ FAB$B_FNS ];
STRING_DESC [ DSC$A_POINTER ] = .FAB [ FAB$[_FNA ]
                                                   END:
                                            SIGNAL_STOP( .FAB [ RAB$L_CTX ],1,STRING_DESC,
.FAB [ FAB$L_STS ],.FAB [ FAB$L_STV ] )
                                            END:
```

	52 51 01	00000000	00 AC 61	9E	00000 20000 90000 00000		MOVAB MOVL	FDL\$\$RMS_OPEN_ERROR, Save R2 STRING_DESC, R2 4(AST_BLOCK), FAB (FAB), #1	2383 2434 2438
	51 50	3C 28 03	04 A1 A1	12 00 00	00010 00012 00016 0001A	15:	MOVL CMPB BNEQ MOVL MOVL TSTB BEQL MOVZBW	1\$ 60(FAB), FAB 40(FAB), NAM 3(NAM)	2440 2444 2450
04	62 A2	03	A0 A0 A0	13 9B	0001D 0001F 00023		BEQL MOVZBW MOVL	3(NAM), STRING_DESC 4(NAM), STRING_DESC+4	2453 2454
		0B	19 A0	95	00028	2\$:	MOVL BRB TSTB	11 (NAM)	2459

FDLDRIVER V04-000	VAX-11 FDL Utilities FDL\$\$RMS_OPEN_ERROR			K 1 16-5 14-5	2 ep-1984 01:47 ep-1984 12:3	7:45 VAX-11 Bliss-32 V4.0-742 1:17 [FDL.SRC]FDLDRIVER.B32;1	Page 52 (23)
	04	62 0 A2 0	B AO	13 0002D 9B 0002F D0 00033	BEQL MOVZBW MOVL BRB : MOVZBW	3\$ 11(NAM), STRING_DESC 12(NAM), STRING_DESC+4	2462
			09 4 A1	11 00038 9B 0003A 3\$	BRB MOVZBW	52(FAB), STRING DESC	
	04	62 3 A2 2 7E 0	B A0 C A0 O9 4 A1 C A1 52 O1	DD 00043 DD 00047 DD 00049	MOVL	52(FAB), STRING_DESC 44(FAB), STRING_DESC+4 8(FAB), -(SP) R2	2470 2471 2475 2474
	00000000	00 1	B A1 05	DD 0004B FB 0004E 04 00055	PUSHL CALLS RET	24(FAB) #5, LIB\$STOP	2477
; Routine Size	: 86 bytes, Routine	Base: _FDL	SCODE 4	O5AA			
: 1778 : 1779	2478 1 2479 0 END ELUDOM						
		DCECT CUMM			.EXTRN	LIB\$SIGNAL, LIB\$STOP	
Name	Byte	PSECT SUMM	ART	Attri	butes		
FDLSOWN FDLSCODE		12 NOVEC,	WRT,			REL, CON, PIC, ALIGN(2) REL, CON, PIC, ALIGN(2)	
:	Libra	ry Statistic					
File		Tota		mbols		s Processing ed Time	
_\$255\$DUA28	:[SYSLIB]STARLET.L32;1	977	5	39	0 581	00:01.0	
:		COMMAND Q	JAL IF IE	RS			
: BLISS/	CHECK=(FIELD, INITIAL, OP	TIMIZE)/LIS=	.15\$:FD	LDRIVER/OBJ=	OBJ\$:FDLDRIVE	ER MSRC\$:FDLDRIVER/UPDATE=(ENH\$:FDL	DRIVER)
; Size: ; Run Time: ; Elapsed Time ; Lines/CPU Mi ; Lexemes/CPU- ; Memory Used:	n: 4125 Min: 21518	ytes					

FDLDRIVER V04-000

VAX-11 FDL Utilities FDL\$\$RMS_OPEM_ERROR

L 12 16-Sep-1984 01:47:45 VAX-11 Bliss-32 V4.0-742

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; Compilation Complete

0176 AH-BT13A-SE

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